



- (51) **International Patent Classification:**
B29D 11/00 (2006.01) *B25B 5/14* (2006.01)
B25B 5/10 (2006.01)
- (21) **International Application Number:**
PCT/GB2014/051916
- (22) **International Filing Date:**
23 June 2014 (23.06.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/839,691 26 June 2013 (26.06.2013) US
- (71) **Applicant:** COOPERVISION INTERNATIONAL HOLDING COMPANY, LP [GB/BB]; Edghill House, Wildey Business Park, Suite 2, St Michael (BB).
- (72) **Inventors:** RODRIGUEZ, Fernando Andres Bejarano; Urb. Paseos del Rio, Calle Rio Bairoa #304, Caguas, 00725 (PR). AMARAL, Carlos Sandoval; CooperVision, Inc., 500 Rd 584, Juana Diaz, 00795 (PR). COLON, Ruben Joel; CooperVision, Inc., 500 Rd 584, Juana Diaz, 00795 (PR). PEDROGO, Fernando Rentas; CooperVision, Inc., 500 Rd 584, Juana Diaz, 00795 (PR).
- (74) **Agent:** CRITTEN, Matthew Peter; c/o Abel & Imray, 20 Red Lion Street, London WC1R 4PQ (GB).

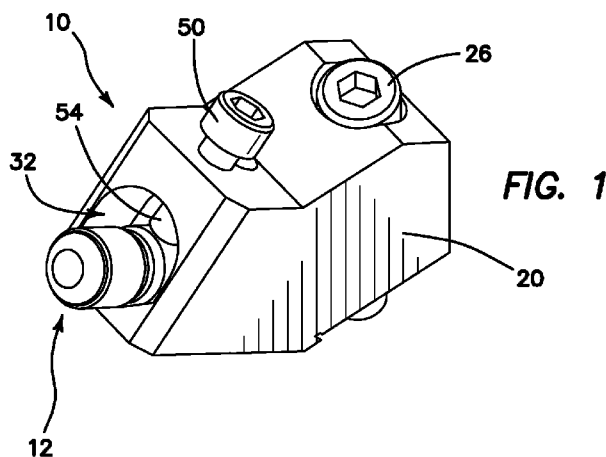
(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) **Title:** METHODS OF MANUFACTURING AND APPARATUS USEFUL IN MANUFACTURING TORIC CONTACT LENSES



(57) **Abstract:** Method and apparatus of manufacturing a toric contact lens comprising providing a toric insert (12) without an orientation mark to be used in forming a toric contact lens mold section; placing the toric insert without an orientation mark in an orientation mark fixture (10) comprising a single piece fixture housing (20) structured to hold a toric insert at an angle specified for an orientation mark, the fixture housing having intersecting surfaces (36, 40) which form a generally V-shaped region on which the toric insert is located, the generally V-shaped region contacting the toric insert at two different contact points, lines or areas; fixing the toric insert without an orientation mark to the orientation mark fixture; forming an orientation mark on the toric insert fixed to the orientation mark fixture; using the toric insert with the orientation mark to form a toric contact lens mold section; and using the toric contact lens mold section to form a toric contact lens.

